

International application No.
PCT/JP03/10702

A. CLASSIFICATION OF SUBJECT MATTER Int.Cl ⁷ H03M1/66, H03B28/00, G01S7	/282, G01S7/35, G01S13/	34
According to International Patent Classification (IPC) or to both na	tional classification and IPC	
B. FIELDS SEARCHED		
Minimum documentation searched (classification system followed Int.Cl ⁷ H03M1/00-H03M1/88, H03B28/G01S13/34	00, G01S7/282, G01S7/35	
Documentation searched other than minimum documentation to the Jitsuyo Shinan Koho 1926-1996 Kokai Jitsuyo Shinan Koho 1971-2003	Toroku Jitsuyo Shinan Koho Jitsuyo Shinan Toroku Koho	1994-2003 1996-2003
Electronic data base consulted during the international search (nam	e of data base and, where practicable, sear	rch terms used)
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category* Citation of document, with indication, where ap		Relevant to claim No.
X Microfilm of the specification Y to the request of Japanese Uti A No. 42717/1989(Laid-open No. (Yokogawa Electric Corp.), 08 November, 1990 (08.11.90), Full text; all drawings (Family: none)	lity Model Application 134723/1990)	1,2 4-6 3
X JP 61-144930 A (Hitachi, Ltd Y 02 July, 1986 (02.07.86), A Full text; all drawings (Family: none)	,	1,2 4-6 3
Further documents are listed in the continuation of Box C.	See patent family annex.	
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the an document member of the same patent family	
Date of the actual completion of the international search 26 November, 2003 (26.11.03)	Date of mailing of the international sear 09 December, 2003	(09.12.03)
Name and mailing address of the ISA/ Japanese Patent Office	Authorized officer	
Facsimile No.	Telephone No.	





INTERNATIONAL SEARCH REPORT

International application No.
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ategory*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
Y	JP 11-168325 A (Sony Corp.), 22 June, 1999 (22.06.99), Column 1, line 50 to column 2, line 24; column 6, lines 31 to 48; column 12, line 34 to column 14, line 39; column 15, line 26 to column 16, line 9; Figs. 5, 6 (Family: none)	4-6

Form PCT/ISA/210 (continuation of second sheet) (July 1998)